

Master Equipment List (MEL) Evaluation & Development

The Master Equipment List is a list that is generated in a specific configuration that includes all equipment that is owned by an organization. One of the first steps of any preventive maintenance program is to know what equipment exists in your facility.

The creation of a accurate Master Equipment List is essential in building a quality Preventive Maintenance Program. The MEL is instrumental in:

- **Prioritizing components based on importance to process or if it can have a significant budget impact (either thru failure or inefficient operation)**
- **Assigning components into logical groupings**
- **Determining the type and number of maintenance activities required for each piece or equipment**



When a Maintenance Management Information System (MAXIMO, Passport, etc) is implemented, the first element that must be addressed is the Master Equipment List. Before systems can be developed to maintain equipment, appropriate information about the equipment needs to be available. Just as the work order is central to effective work planning and authorization the MEL is essential to a Maintenance Management Information System.

opX will first create a Master Equipment List guideline which will not only define what should be contained in the MEL, but how each department or organization is responsible for its upkeep. The decision on what equipment is listed and what information about it is included is will strongly affect the success of the system.

opX personnel are experienced in both the creation and maintaining of the Master Equipment List. If there is a Master Equipment List already in place opX will be able to evaluate it and update it to meet your needs

The procedural steps for developing / evaluating a Master Equipment List could include:

- **Develop the MEL UNID (Unique ID) format that will be used in identifying each component.**
- **Prepare a MEL spreadsheet for selected sub-systems and determine what information is to be included in MEL**
- **Conduct field walkdown to compare drawing and P&ID's with actual conditions**
- **Mark up of drawings (P&ID, Electrical, Mechanical, etc) to reflect actual conditions and UNID format**
- **Populating Maintenance Management Information System with MEL data**

Sample Master Equipment List Spreadsheet

No.	Component Name	Description	Genco DWG/Sheet	Location	UNID	Equipment Reliability Component Classification (CC, NC, or, RTF)
1	Damper	Flue Gas - Intake South Secondary Air Preheater	82117-20A	FC-04	FC04-BO-FG-DPR-001	3
2	Damper	Flue Gas - Intake Primary Air Heater	82117-20A	FC-04	FC04-BO-FG-DPR-002	4
3	Drive	Drive-Damper DPR-002	82117-20A	FC-04	FC04-BO-FG-DRV-002	2
4	Pressure Transmitter	Flue Gas - Intake Primary Air Heater	82117-220A	FC-04	FC04-BO-FG-PT-001	1

At a minimum the Mel Should Include

- **A description of the System or Equipment**
- **The UNID (Unique Identifier) if one is assigned**
- **The Location**
- **Drawing Number**
- **The Risk category assigned in the grading process**

Additional Information – more information on how we can help you with an evaluation of your MEL development / evaluation program can be provided by request. In addition, opX engineers are willing to visit your facility to present and discuss further aspects of the Program. Please contact us at our website, or you can call/fax us directly.

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